CCNA Countdown Calendar

The lines after the countdown number allow you to add the actual calendar days for reference.

31	30	29	28	27	26	25
Networking Models, Devices, and Components	Ethernet Switching	Switch Configuration Basics	IPv4 Addressing	IPv6 Addressing	VLAN and Trunking Concepts and Configuration	STP
24	23	22	21	20	19	18
EtherChannel and HSRP	DHCP and DNS	Wireless Concepts	WLAN Configuration	LAN Security and Device Hardening	Basic Routing Concepts	Basic Router Configuration
17	16	15	14	13	12	11
The Routing Table	Inter-VLAN Routing	Static and Default Route Configuration	OSPF Operation	Single-Area OSPF Implementation	Fine-Tuning and Troubleshooting OSPF	Network Security Concepts
10	9	8	7	6	5	4
ACL Concepts	ACL Implementation	NAT	WAN, VPN, and IPsec	QoS	CDP and LLDP	Device Monitoring, Management, and Maintenar

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EXAM DAY

Cloud, Virtualization, and SDN SDA and Cisco DNA Center Network Automation Time

Location

Exam Checklist

<u></u>	Objective
•	Schedule to take the CCNA 200-301 exam at http://www.vue.com.
	Take at least one practice CCNA exam.
	Create a diagram of the layered models.
	Describe the details of sending an email from source to destination. Use a topology with several routers and switches.
	Describe the CSMA/CD process to someone who knows nothing about networking.
	Design a set of requirements to configure a basic switched network, including SSH for remote access. Implement your design and verify the configurations.
	Show someone the MAC address on his or her Smartphone or other connected device. Explain the purpose of the MAC address and the meaning of each part.
	Describe the structure and operation of IPv4. List and describe the uses for the various types of IPv4 addresses.
	Develop several VLSM addressing schemes with various host requirements and implement them in a lab or simulator.
	Describe the structure and operation of IPv6. List and describe the uses for the various types of IPv6 addresses
	Design a set of requirements to configure a two-switch network with VLANs and trunking.
	List and describe the uses for various types of VLANs.
	Describe how trunking works and the impact of Dynamic Trunking Protocol.
	Design a set of requirements to configure a three-switch network with trunking and VLANs. Implement your design and verify the configurations.
	Describe the process of STP convergence.
	Compare the varieties of STP.
	Explain the difference between PVST+ and Rapid PVST+.
	Describe the benefits of EtherChannel. Compare the two EtherChannel protocols.
	Design a set of requirements to implement a two-switch topology with EtherChannel. Review implementation issues by changing the configuration parameters.
	Describe how HSPR provides default gateway redundancy.
	Explain to a friend how wireless networks operate.
	Practice configuring a wireless router. Use a simulator like Packet Tracer to practice configuring a WLC.
	Read and review Days 31–21 in this book.
CC	NA Checklist Days 20–14
<u></u>	Objective
•	Take at least two practice CCNA exams.
	Describe the various methods that a router can use to learn about and share knowledge of remote networks.
	Design a set of requirements to configure a three-router network with both IPv4 and IPv6 addressing, using only static and default routes. Implement your design and verify the configurations.
	Describe how a router uses the routing table to determine the best path to the destination.
	Design and configure a one-router, two-switch topology for router-on-a-stick inter-VLAN routing.
	Describe the types of OSPF packets and how they are used to reach the full state of OSPF convergence.
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Describe the ways to modify OSPFv2, including redistributing a default route, modifying timers, and

controlling the DR/BDR election.

Read and review Days 20–14 in this book.

<u> </u>	CNA Checklist Days 13-7
\	Objective
	Take an additional CCNA practice exam.
	Design a set of requirements to configure a three-router network with IPv4 addressing and OSPFv2. Implement your design and verify the configurations.
	Design a set of requirements to configure a two-router, two-switch network with IPv4 addressing and inter-VLAN routing. Include default routing and OSPFv2. Implement your design and verify the configurations.
	Describe basic security threats and the methods used to mitigate them.
	Describe how access control lists work and the various types used by Cisco IOS Software.
	Search the Internet for various scenarios to practice designing and implementing ACLs. Most of the study resources have excellent examples.
	Design a set of requirements to implement a routed network that includes basic device security, IPv4 and IPv6 addressing, VLANs, DHCP, NAT, ACLs, and routing. Implement your design and verify the configurations.
	Design a set of requirements to implement DHCP service on a router. Dual-stack the design to include IPv4 and IPv6. Implement your design and verify the configurations.
	Design a set of requirements to implement NAT on a router. Include static, dynamic, and PAT considerations. Implement your design and verify the configurations.
	Define common WAN terminology.
	Compare various WAN connection options.
	Describe the characteristics of GRE.
	Read and review Days 13–7 in this book.
C	CNA Checklist Days 6–1
<u> </u>	Objective
	Describe to a friend how QoS prioritizes Netflix streaming data over web browsing data.
	Compare and contrast the implementations of CDP and LLDP.
	Describe the Cisco IOS file system and the process for backing up and restoring files.
	Explain the basics of SNMP, NTP, and syslog operation.
	Design a set of requirements to implement SNMP, NTP, and syslog in a two-router, one-server topology.
	Describe to a friend the concept of cloud computing. Include a discussion of virtualization.
	Describe software-defined networking.
	Describe the fabric of the network infrastructure and the difference between overlay and underlay.
	Describe how Cisco DNA Center helps network administrators automate network configuration and monitoring tasks.

Describe to a friend how data formats are used to store and exchange information between systems.

Describe the JSON data format, including how brackets, braces, and commas are used to distinguish key/value

Describe the structure of a properly formatted RESTful API request.

Compare the configuration management tools Ansible, Puppet, and Chef.

Visit the testing center and talk with the proctor at least 2 days before the exam.

Eat a decent meal, watch a good movie, and get a good night's rest before the exam.

pairs, arrays, and objects.

Read and review Days 6-1 in this book.